



Magister in brief

TEAM

Nearly 30 employees about half of them having PhD degree or working towards PhD

COMPETENCES and TECHNOLOGIES

System simulations, modelling of telecommunication systems, AI/ML, experience in development of performance critical software, web- and mobile applications, management of databases, virtual server environments and test automation

Languages: C, C++, C#, VB.NET, HTML5, JavaScript, Qt, PHP, Java (Android), Swift (iOS), scripts

SECTORS & PARTNERS

Mobile and satellite communication vendors and operators, financial sector, software industry, manufacturing industry

COMPANY

Privately held company, established in 2005.











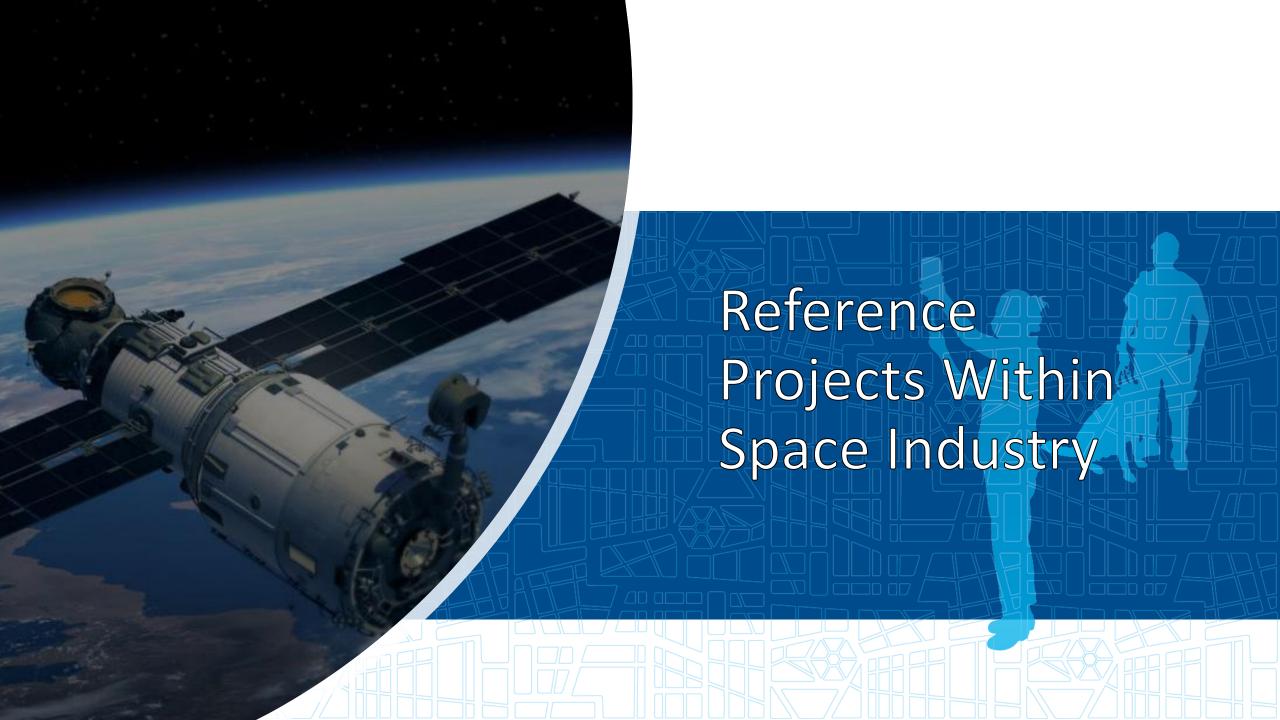












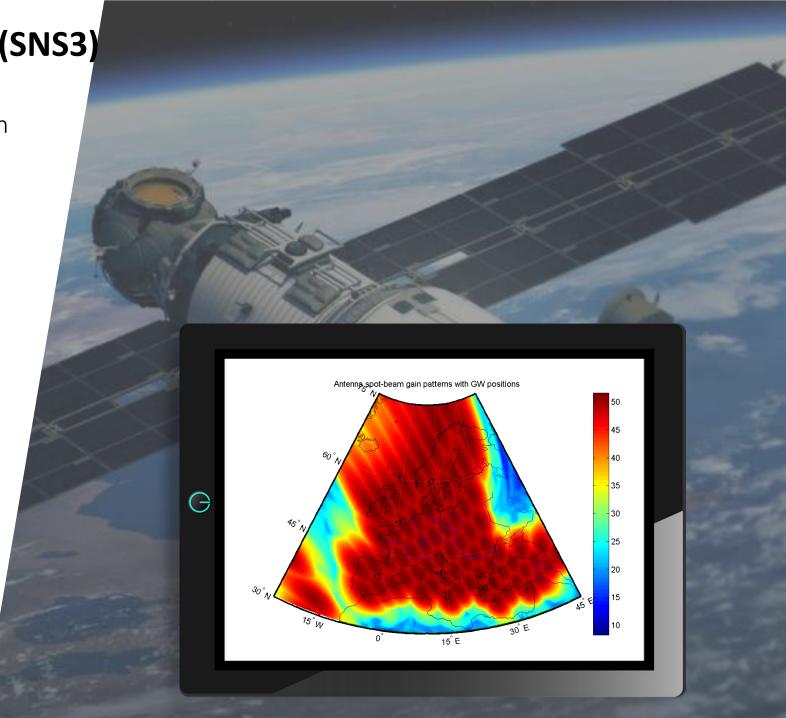
Satellite Network Simulator 3 (SNS3)

- Magister developed SNS3 simulator within ESA project "Development of an opensource, modular and flexible satellite network simulator"
- Dynamic system/network simulator for geostationary satellite system design and optimization
- Users in over 40 organizations in Europe
- SW code released in public and is jointly maintained by CNES and Magister Solutions http://sns3.org
- Latest updates by Magister Solutions include beamhopping, aeronautical mobility model and DVB-S2x
- Web page: http://satellite-ns3.com/









Satellite Constellation Network Emulator (SCNE)

- ESA Project AO8939 Status: on-going
 - https://artes.esa.int/projects/scne
- Objective Study of protocol performance used in future LEO constellations up to several hundreds of satellites by developing an integrated platform for satellite constellation design and optimization
- Magister Solutions main responsibility is to develop network simulator for data link and above protocol layers









Constellation – Dynamic Resource Allocation Management (C-DReAM)

ESA Project AO9297 - Status: on-going

Objective

 Design RRM algorithm for NGSO satellite constellation

- Target to meet non-uniform and evolving user demand by means of payload flexibility and reconfigurability while taking other systems and regulatory constraints into account
- Usage of AI/ML methods for resource allocation
- Magister Solutions main responsibility is to develop a reusable system simulator to test the RRM algorithm performance and complexity







